

APPENDIX A

SACO RIVER WATERSHED

(HUC8: 01060002)

I. WATERSHED DESCRIPTION AND MAPS

The Saco River Watershed covers an area of approximately 1,071 square miles situated on the Maine-New Hampshire border in the eastern middle of the state. There are 28 towns located at least partially within the watershed. As shown in Figure 1, the primary watercourse in the region is the Saco River which flows south from its headwaters at Saco Lake in Bethlehem, NH exiting the watershed in Conway, NH on the western border. The entire western border of the watershed is comprised of mountain ranges which are, from north to south: the Presidential Mountains, the Sandwich Range, and the Ossipee Mountains. The Green Hills are located along the Maine border. There are three lakes of notable size which are Ossipee, Silver, and Conway Lakes all located in the southeastern portion of the watershed. The Saco River does not flow through any of the three lakes.

As shown in Figure 2, the watershed consists of 85% forested land cover, a great portion of which is conserved and protected as part of multiple conservation areas including White Mountains National Forest, Green Hills Preserve, Pine River State Forest, and numerous smaller forests, scenic areas, sanctuaries, and refuges. The Appalachian Trail forested corridor crosses the watershed near the northern boundary. Small areas of development and disturbed land identified on the following land cover map (Figure 2) are found along the Saco River and lakes and make up 8.5% of watershed area.

Based on the 2010 303(d) list, one assessment unit (AU) in this watershed is listed as being impaired for bacteria. The location of the bacteria impaired surface water AU is shown on Figure 1 as a red circle. Item A1 presents the percent reduction needed to meet each water quality criterion (and TMDL), based on the highest recorded bacteria measurement that exceeds the criterion for the AU, as well as the bacteria data collected in the impaired AUID that was used to list the AU as impaired on the 2010 303(d) list.

FIGURE 1:

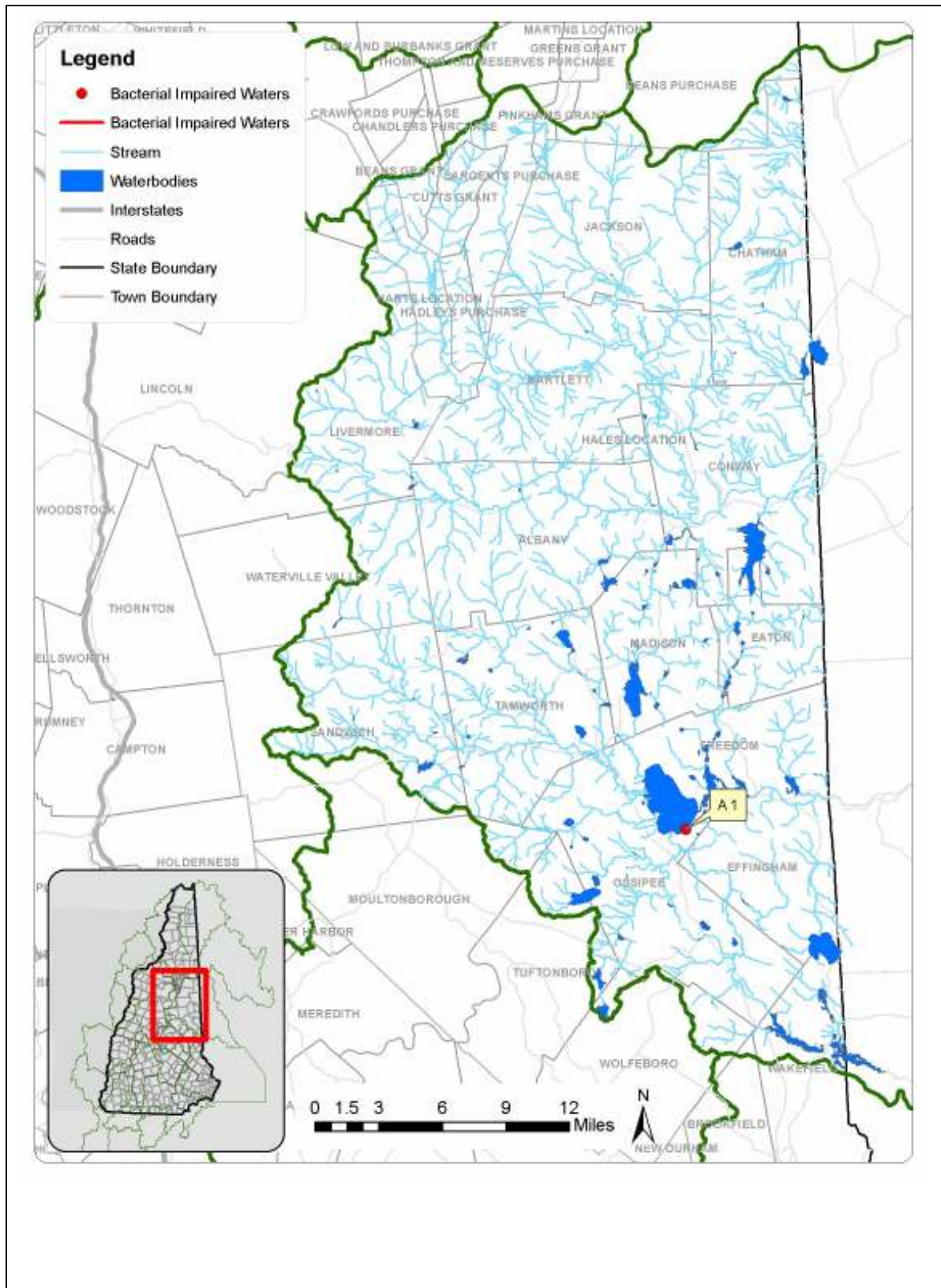
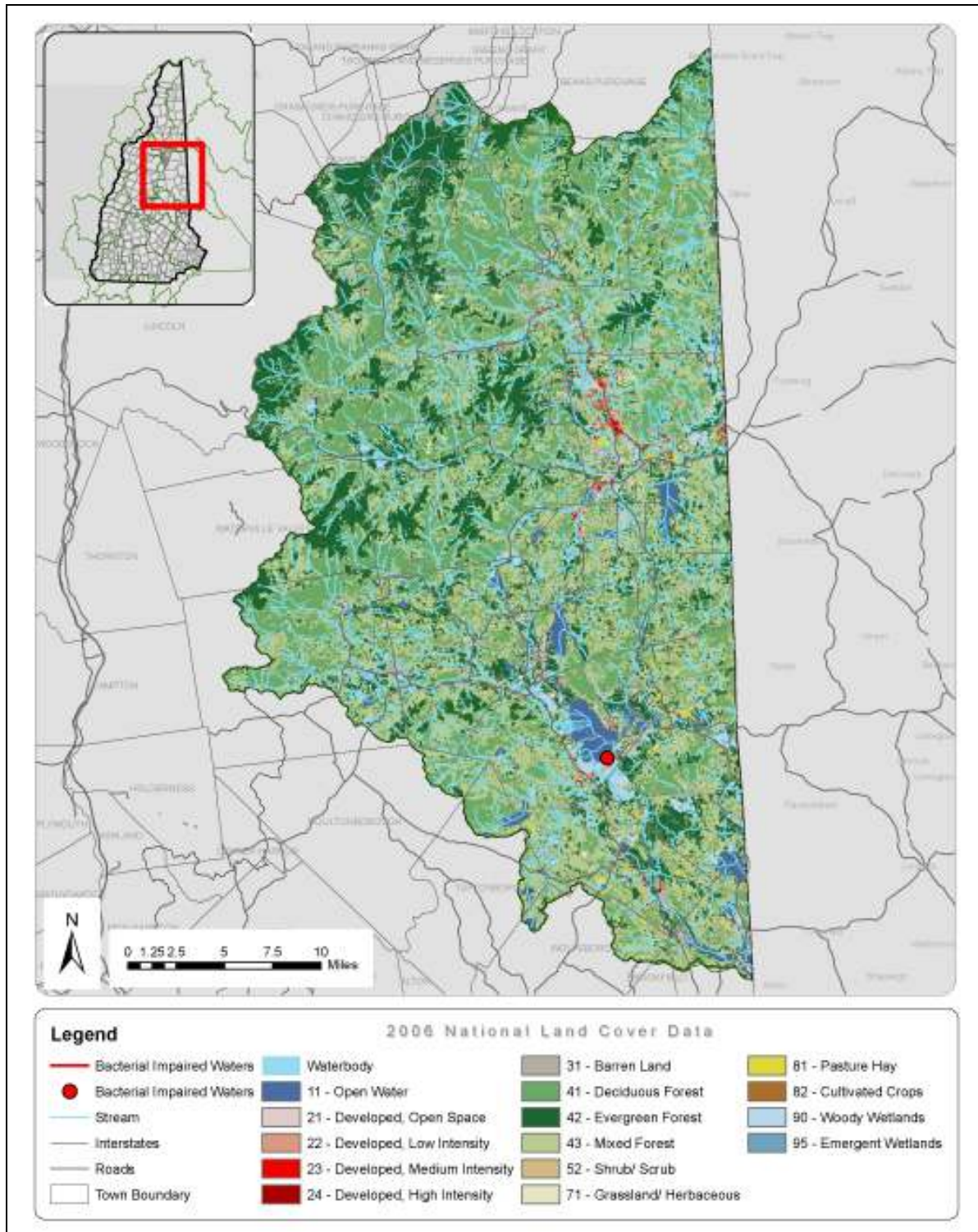


FIGURE 2:



II. WATER QUALITY DATA TABLES

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A1: Ossipee Lake – Ossipee Lake Natural Area

AUID NHLAK600020802-04-05

Characteristics: freshwater, class B designation, designated beach, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 88 CTS/100Ml

Geometric mean: 47 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 27%

Geometric mean: in compliance

Data: 2009 (inclusive) from NH DES, 2010 TMDL cycle

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	BCHOSSOSSCR	5/25/2009	1.0
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	BCHOSSOSSCR	7/19/2009	68.0
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	BCHOSSOSSCR	8/16/2009	1.0
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	BCHOSSOSSCR	5/10/2009	20.0
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	BCHOSSOSSLF	5/25/2009	40.0
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	BCHOSSOSSLF	7/19/2009	120.0
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	BCHOSSOSSLF	8/16/2009	80.0
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	BCHOSSOSSLF	5/10/2009	24.0
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	BCHOSSOSSRT	5/25/2009	4.0
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	BCHOSSOSSRT	7/19/2009	30.0
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	BCHOSSOSSRT	8/16/2009	110.0
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	BCHOSSOSSRT	5/10/2009	25.0

Shaded cells indicate exceedance of water quality criteria

Geometric mean *E. coli* results (CTS/100ML)

Station Name	Date	Result
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	7/19/2009	18.4
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	8/16/2009	35.9
OSSIPEE LAKE – OSSIPEE LAKE NATURAL AREA	5/23/2009	11.1